

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled).

2. (Currently Amended) A measuring device as claimed in claim ~~4~~ 24, characterized in that the seal comprises a pile of two extreme sheets between which a multiplicity of intermediate sheets is arranged and the housing is delimited by said extreme sheets and at least one intermediate sheet.

3. (Previously Presented) A measuring device as claimed in claim 2, characterized in that at least one intermediate sheet comprises a cut open in the direction of the chamber.

4. (Previously Presented) A measuring device as claimed in claim 2, characterized in that at least one intermediate sheet comprises electric connection means between the sensitive element and a measuring means.

5. (Previously Presented) A measuring device as claimed in claim 4, characterized in that the electric connection means are borne by an intermediate sheet in form of a film on which a printed circuit comprising at least one electric conductor between the sensitive element and the measuring means is formed.

6. (Previously Presented) A measuring means as claimed in claim 2, characterized in that the sheets are electrically insulated from one another by at least one sheet in form of a plate, layer or insulating deposit.

7. (Previously Presented) A measuring device as claimed in claim 4, characterized in that two of the opposite vertical faces of the sensitive element are connected to the electric connection means.

8. (Previously Presented) A measuring device as claimed in claim 4, characterized in that two of the opposite horizontal faces of the sensitive element are connected to the electric connection means.

9. (Previously Presented) A measuring device as claimed in claim 4, characterized in that the sensitive element is connected to the electric connection means by a conducting glue.

10. (Currently Amended) A measuring device as claimed in claim 4, characterized in that the sensitive element is connected to the electric connection means of the at least one intermediate sheet by at least one conducting element  
(66).

11. (Previously Presented) A measuring device as claimed in claim 2, characterized in that the sheets are joined together by glueing.

12. (Previously Presented) A measuring device as claimed in claim 11, characterized in that glueing is carried out by interposing a glue layer.

13. (Original) A measuring device as claimed in claim 2, characterized in that at least the extreme sheets are made of metal.

14. (Previously Presented) A measuring device as claimed in claim 2, characterized in that at least the central sheet of the intermediate sheets is made of metal.

15. (Currently Amended) A measuring device as claimed in claim-4 24, characterized in that the material filling the housing is a resin withstanding high temperatures.

16. (Currently Amended) A measuring device as claimed in claim-4 24, characterized in that a face of the housing in the direction of the chamber is covered with a protective element.

17. (Previously Presented) A measuring device as claimed in claim 16, characterized in that the protective element comprises a wall covering face and the ends of said wall are folded back over extreme sheets of the seal.

18. (Currently Amended) A measuring device as claimed in claim-4 24, characterized in that the sensitive element is a piezoelectric or piezoresistive element.

19. (Currently Amended) A measuring device as claimed in claim-4 24, characterized in that the seal is a cylinder head gasket arranged between the cylinder head and the engine block of an internal-combustion engine.

20. (Currently Amended) A measuring device as claimed in claim-4 24, characterized in that the seal comprises a temperature-sensitive element.

21. (Currently Amended) A method, comprising using at least one measuring device as claimed in claim 4 24 for engine knock measurement, detection and analysis in the combustion chamber of an internal-combustion engine.

22. (Currently Amended) A method, comprising using at least one measuring device as claimed in claim 4 24 for combustion characterization in at least one combustion chamber of an internal-combustion engine.

23. (Currently Amended) A method, comprising using at least one measuring device as claimed in claim 4 24 to determine engine knock location in the combustion chamber of an internal-combustion engine.

24. (Currently Amended) A measuring device ~~as claimed in claim 1,~~  
characterized in that for measuring at least the pressure of a fluid present in a  
chamber, said device comprising a sensitive element placed in a housing provided  
within a seal interposed between two elements forming said chamber, characterized  
in that the housing is open in the direction of the chamber and surrounded by the

seal in all other directions and the sensitive element is coated at its end facing the chamber and at its end opposite the end facing the chamber with ~~the a~~ material filling the housing.

25. (Currently Amended) A measuring device as claimed in claim-4 24, characterized in that at least outer layers of said seal extend to the chamber.

26. (Previously Presented) A measuring device as claimed in claim 2, characterized in that at least the extreme sheets extend to the chamber.

27. (Previously Presented) A measuring device as claimed in claim 2, characterized in that at least the extreme sheets and outer ones of the intermediate sheets extend to the chamber.